Secure Router 4134

Secure Router 4134 Release Notes

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Contents

New features 5
New features for Release 10.1.4 5
Navigation 5
Software Communications System server hosted on the Secure Router 4134 Server Module 5
SIP gateway interoperability 6
Support for 300K BGP routes 6
Support for creating custom ringback tones for T1/E1 PRI and CAS ports 6

Upgrading and downgrading the Secure Router 4134 9
Secure Router 4134 software file names and sizes 9
Upgrading software on the Secure Router 4134 9
Upgrade procedure 11
Example of upgrading software on the Secure Router 4134 using an FTP server and overwriting the existing image 12
Example of upgrading software on the Secure Router 4134 using an external Compact Flash card or USB Flash drive 14
Downgrading the Secure Router 4134 software 15
Downgrading Secure Router 4134 software for technical reasons 16
Downgrading the Secure Router 4134 software to move an interface module from a Release 10.1.4 chassis to a Release 10.1.x chassis 18
Upgrading or downgrading the bootrom image version 20

Resolved issues 25
Resolved issues 25

Known issues 27
Known issues 27

Known limitations 31
Known limitations 31

How to get help 33
How to get help 33
Getting help from the Nortel Web site 33
Getting help over the phone from a Nortel Solutions Center 33
Getting help from a specialist using an Express Routing Code 34

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Getting help through a Nortel distributor or reseller 34

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New features

The Nortel Secure Router 4134 Release 10.1.4 is for general use and is supported on the Secure Router 4134 platform only.

New features for Release 10.1.4

The Nortel Secure Router 4134 Release 10.1.4 provides interoperability of Secure Routers with other elements of the Nortel product and solutions families.

Navigation

- "Software Communications System server hosted on the Secure Router 4134 Server Module" (page 5)
- "SIP gateway interoperability" (page 6)
- "Support for 300K BGP routes" (page 6)
- "Support for creating custom ringback tones for T1/E1 PRI and CAS ports" (page 6)

Software Communications System server hosted on the Secure Router 4134 Server Module

Release 10.1.4 allows you to host the Software Communications System (SCS) server on the Secure Router 4134 (SR4134) Server Module. The SCS is a SIP-based IP PBX Solution that provides voice, conferencing, unified messaging, voicemail, auto-attendant and a number of other voice features.

Hosting the SCS server on the SR4134 Server Module provides a complete solution for small and medium businesses. It combines voice and advanced communications services with data and security to deliver an integrated, easy-to-manage platform that reduces capital, operational, and energy costs.

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SIP gateway interoperability

In this release, the SR4134 can function as a SIP gateway for the SCS. The SIP gateway provides the SCS and SIP clients access to the PSTN, analog phones and fax systems. The SR4134 also provides a router/switch for IP network connectivity, and a firewall for network security.

Support for 300K BGP routes

Release 10.1.4 adds the support for full internet BGP table of 300K IPv4 routes on network cards.

Support for creating custom ringback tones for T1/E1 PRI and CAS ports

The following enhanced voice class commands are supported in Release 10.1.4 to create custom ringback tones.

- The **dualtone** creates a custom dual tone with support for configuring the frequency pair, amplitude and cadence.
- The **custom-cptone** command assigns the custom dual tone as the ring back tone.
- The **voice-class custom-cptone** associates the custom dual tone to the voice port.

The support in this release is limited to T1/E1 PRI and T1 CAS ports. Sample configurations are shown below.

The following sample configuration shows defining dual tone classes for some countries:

```
voice class

    dualtone tone1
        freq-pair 1 425 0
        amplitude-pair 1 -200 0
        cadence-list 1 1000 4000
    exit dualtone

    dualtone tone2
        freq-pair 1 440 480
        amplitude-pair 1 -200 -200
        cadence-list 1 2000 4000
    exit dualtone
```


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```
        dualtone tone3
            freq-pair 1 400 450
            freq-pair 2 400 450
            amplitude-pair 1 -200 -200
            amplitude-pair 2 -200 -200
            cadence-list 1 400 200
            cadence-list 2 400 2000
        exit dualtone
exit class
```

The following sample configuration shows using dual tone for creating custom-cptone sets:

```
voice class

        custom-cptone Germany
            ringback-tone dualtone tone1
        exit custom-cptone

        custom-cptone US
            ringback-tone dualtone tone2
        exit custom-cptone

        custom-cptone Britain
            ringback-tone dualtone tone3

        exit custom-cptone

exit class
```


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The following sample configuration shows using the custom-cptone class in the voice-port:

```
voice-port 3/1
    no shutdown
    voice-class custom-cptone Britain
exit voice-port
```


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Upgrading and downgrading the Secure Router 4134

This section describes the procedures for upgrading the Secure Router software.

Secure Router 4134 software file names and sizes

The Nortel Secure Router Release 10.1.4 software is supported only on the Secure Router 4134. The Release 10.1.4 software is available from the Nortel Technical Support Web site (www.nortel.com/support).

Table 1
Secure Router 4134 software images

Description	File size (bytes)	Version	File name
Secure Router 4134 application image	19,517,440 bytes	10.1.4	SR4134.Z

Upgrading software on the Secure Router 4134

The following two upgrade tasks cause an interruption in service for the Secure Router 4134:

- The upgrade of the software on the Secure Router 4134 requires to reboot the router. This can cause an interruption in service for the Secure Router 4134.
- If you do not power down the router to install a module, you must reboot the router to use the card. After a module is installed and initialized, you can hot swap that module. Also, to install an internal module of any type, you must power down the router.

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CAUTION
Risk of damage to equipment
Secure Router 4134 Release 10.1 and later includes a bootrom image that is updated from the 10.0 release. When you install software Release 10.1.x, it updates the EEPROM on each module installed in the Secure Router 4134 at the time of upgrade. Ensure you have only modules installed that you plan to use with Release 10.1.x software.

ATTENTION
The Telnet and FTP servers are disabled by default in Release 10.1.0 and later software. To enable the Telnet server, enter **`telnet_server`** from configuration mode. To enable the FTP server, enter **`ftp_server`** from configuration mode.

ATTENTION
Nortel recommends that you use an FTP server when you upgrade software because of the size of the image file.

For Secure Router 4134 Release 10.1.4, the software image file and boot image file are contained within one file. The image file name is SR4134.Z. You can load an image file to a Nortel Secure Router 4134 using any of the following methods:

- accessible FTP server
- external USB Flash drive
- external Compact Flash card

The Nortel command line interface (CLI) provides commands that allow you to upgrade the Secure Router 4134 with new software, to verify that the file has successfully loaded, and to specify the location of the image file from which the router boots.

The Secure Router 4134 supports two or more software versions (dependent on the capacity of the storage device). However, the software image filename for every version is SR4134.Z. To avoid overwriting a previous version of software, you must rename the old version of software before you download the upgrade software version.

If you download the image file from the Nortel Support Web site to an FTP server, you can use the **`file download`** command to load the image to the Secure Router 4134. If you download the image file from the Nortel Support Web site to a USB Flash drive or Compact Flash card, use the **`file copy`** command to load the image file to the Secure Router 4134.

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ATTENTION
If you experience any issues with a downloaded file (incomplete or corrupt file), begin the download process again.

Upgrade procedure

The procedure in this section describes the basic steps to follow to upgrade your Secure Router 4134 software and hardware.

ATTENTION
Nortel recommends that you create a backup file that contains your router configuration before you upgrade software.

ATTENTION
By default, the Secure Router 4134 automatically updates the normal and golden bootrom images when you upgrade software. To ensure that the Secure Router 4134 updates the normal and golden bootrom image automatically, enter the **`show boot_params`** command and ensure that the parameter `Save bootrom image [0:AutoUpdate, 1:NormalBTupd, 2:GoldenBTupd, 3:NoUpd]` is set to **`0 (AutoUpdate)`**. Use the **`boot_params`** command (in configuration mode) if you must edit the setting for this parameter.

Procedure steps

Step	Action
1	Create a backup copy of your router configuration by saving the configuration file to an FTP server, a USB Flash drive storage device, or an external Compact Flash card storage device.
2	Download the image file from the Nortel Support page (www.nortel.com/support) and place it on a USB Flash drive, Compact Flash card, or on a server that is running an FTP daemon.
3	If you use the FTP option, ping the server from the Secure Router to verify connectivity.
4	Download the image file (SR4134.Z) from the FTP server to the internal Compact Flash card (cf0), or copy the file from an external USB Flash drive or Compact Flash card to cf0. **ATTENTION** To download the software image from an FTP server, be sure to set the FTP transfer mode to binary, otherwise the transferred image has more bytes then the original and this corrupted image results in a crash on boot.

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5 To perform a hardware upgrade, power down the Secure Router 4134.

Note: You require the internal Packetized Voice Module (PVM) for voice functionality and features available in Release 10.1 and later software.

ATTENTION
Nortel recommends that you power down the Secure Router 4134 if you are installing an interface module in a slot in which you have not previously installed that module type.

6 Install new hardware.

7 Power up the Secure Router 4134. If you did not power down the router, reboot the router to initialize the software upgrade.

8 Ensure the normal and golden bootroms are updated, and that they are running the same bootrom image version (version 0.0.0.31) for Release 10.1.4

For more information, see "Upgrading or downgrading the bootrom image version" (page 20).

--End--

Example of upgrading software on the Secure Router 4134 using an FTP server and overwriting the existing image

In this example, a version of the SR4134.Z software image file already exists on the internal Compact Flash card. When you upgrade to a new version of the software, the new file overwrites the older version that is on the card.

Use the following procedure to copy the software image file from an FTP server to the Secure Router 4134 internal Compact Flash card and overwrite the existing image.

Procedure steps

Step	Action
1	Create a backup copy of your router configuration by saving the configuration file to an FTP server, a USB Flash drive, or an external Compact Flash card storage device.
2	Download the image file from the Nortel Support page (www.nortel.com/support) and place it on an FTP server.
3	From the root of the CLI, enter file mode: `SR4134# file`

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4 To download the software image file, enter:

```
SR4134/file# download <ftp ipaddr> SR4134.Z
/cf0/SR4134.Z mode image
```

The Secure Router 4134 sends a message indicating it has received your request:

```
Handling ftp request !
```

5 At the prompt, enter **y** to continue to download the file:

```
Continue with the download ?  (y/n) :  y
```

6 The Secure Router 4134 returns a message that requests your input to proceed:

```
WARNING:
Do not remove the Compact Flash during this process
Do not reboot this device during this process
Note that copying files may take 3 – 5 minutes per
megabyte
Proceed(y/n)?  y
```

7 The Secure Router 4134 returns a message indicating that the file already exists on /cf0, and requests input to proceed. The message is received only when you have not renamed the existing Secure Router 4134 image file (the default filename is SR4134.Z).

```
Destination file '/cf0/SR4134.Z' exists, overwrite
?  (y/n) : y
```

8 The Secure Router 4134 returns a message while transferring the file, and indicates when the download is complete:

```
Download in progress...
Loading [100]
Loading [100]
Download successful
```

9 To exit the file menu and reboot the Secure Router 4134, enter:

```
SR4134/file# exit
SR4134# reboot
```

If you have the Mediation Server Module installed and operating, there is a 2-minute delay after you issue the **reboot** command while the router waits for the module to shut down. The chassis reboots automatically when the Mediation Server Module completes shutdown.

--End--

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Example of upgrading software on the Secure Router 4134 using an external Compact Flash card or USB Flash drive

The following example procedure uses an external USB Flash drive for loading the image file to the internal Compact Flash. If you choose to use an external Compact Flash card for loading the image to the Secure Router, the procedure is the same, except the location from which to copy the file is identified as /cf1/.

To avoid overwriting a previous version of software, rename the old version of software before downloading the upgrade software version.

Procedure steps

Step	Action
1	Create a backup copy of your router configuration by saving the configuration file to an FTP server, a USB Flash drive, or an external Compact Flash card storage device.
2	Download the image file from the Nortel Support page (www.nortel.com/support) and place it on a USB storage device.
3	From the root of the CLI, enter file mode: `SR4134# file`
4	To copy the software image file to the internal Compact Flash, enter: `SR4134/file# copy /usb0/SR4134.Z /cf0/SR4134.Z`

5	The Secure Router 4134 returns a message, and requests your input to proceed:
	`WARNING:`
	`Do not remove the USB device during this process`
	`Do not reboot this device during this process`
	`Note that copying files may take 3 – 5 minutes per megabyte`
	`Proceed(y/n)? y`

6	The Secure Router 4134 returns a message, and requests your input to proceed:
	`WARNING:`
	`Do not remove the Compact Flash device during this process`
	`Do not reboot this device during this process`
	`Note that copying files may take 3 – 5 minutes per megabyte`
	`Proceed(y/n)? y`

7	The Secure Router 4134 returns a prompt when the file is copied to the internal Compact Flash card. Enter the list command to verify the file copied successfully: `ls /cf0` The router returns a warning message, and lists the contents of

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the Compact Flash card:

```
WARNING:
Do not remove the Compact Flash during this process
Do not reboot this device during this process

CONTENTS OF /cf0:

    size          date          time          name
  --------------  --------------  --------------  --------------

  19517440    AUG-24-2009    12:42:04      SR4134.Z
```

8 To exit the file menu, enter:
`SR4134/file#` **`exit`**

9 To reboot the Secure Router 4134, enter:
`SR4134#` **`reboot`**

If you have the Mediation Server Module installed and operating, there is a 2-minute delay after you issue the **`reboot`** command while the router waits for the module to shut down. The chassis reboots automatically when the Mediation Server Module completes shutdown.

--End--

Downgrading the Secure Router 4134 software

There are two scenarios in which you must downgrade the Secure Router 4134 software from Release 10.1.4 to 10.1.x:

- You have Release 10.1.4 software installed on your Secure Router 4134 and you must return to Release 10.1.x software for technical reasons.
- You want to move an interface module from a Secure Router 4134 that is running Release 10.1.4 software to a Secure Router that is running 10.1.x software.

CAUTION
Read this section carefully—failure to follow the steps as described in this section can result in system failure.

CAUTION
You must complete all steps of the downgrade process. If you stop the downgrade procedure before completion, the Secure Router 4134 can become unstable. Follow the upgrade procedures to return to Release 10.1.4 software.

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Downgrading Secure Router 4134 software for technical reasons

Use the procedure in this section if you must downgrade your Secure Router 4134 from Release 10.1.4 to Release 10.1.x software.

Procedure steps

Step	Action
1	Nortel recommends that you rename the existing operating software filename on /cf0. For example, rename SR4134.Z to SR4134_10_2.Z
2	Download or copy the Release 10.1.x software file to an FTP server, a Compact Flash card, or a USB Flash drive. See “Upgrade procedure” (page 11).
3	Change the bootrom update flag (the "Save bootrom image" parameter in the boot parameters) to **`1:NormalBTupd`**.
4	(Optional) You can omit this step if you renamed the Release 10.1.4 software file on /cf0. Change the boot parameters to boot with the Release 10.1.x software.
5	Reboot the chassis.
6	Access the bootrom command menu by pressing any key at the beginning of the boot sequence. The Secure Router 4134 stops the auto-boot sequence and redirects you to the bootrom prompt. The following figure shows you the prompt at which you can enter the bootrom command menu by pressing any key.

```
                    VxWorks System Boot

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PROCESSOR     : Freescale MPC8541
SYSTEM MEMORY : 1G
VxWorks       : VxWorks5.5.1
BSP version   : 1.2/0
Boot version  : 0.0.0.19 (NORMAL Boot)
Creation date : Jan  9 2007, 16:21:46
           By : siamak
NORMAL Bt ver : 0.0.0.19
GOLDEN Bt ver : 0.0.0.19
Baseline ver  : 0.0.0.1 (Internal version for checking)



Press any key to stop auto-boot...
 3

[BOOT]: _
```


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7 To downgrade all modules installed in the Secure Router 4134, enter:
E

8 To continue the boot sequence, enter:
D

The Secure Router 4134 boots with the Release 10.1.x software.

9 When the chassis completes the boot sequence, enter the following command to confirm that all installed modules are available in the chassis:
show chassis

10 Downgrade the normal and golden bootrom partitions. For instructions to downgrade the bootrom partitions, see "Upgrading or downgrading the bootrom image version" (page 20).

11 Ensure that the normal and golden bootrom partitions have a bootrom version of 0.0.0.25 or lower for Release 10.0.0 software. To verify the bootrom version on the bootrom partitions, enter:
show version

The following output shows an example of the successful downgrade of both the normal and golden bootrom partitions.

```
PROCESSOR : Freescale MPC8541
SYSTEM MEMORY : 1G
VxWorks :  VxWorks5.5.1
BSP version :  1.2/0
Boot version :  0.0.0.25 (NORMAL Boot)
Creation date :  Dec 12 2007, 19:26:37
By :  kevz
NORMAL Bt ver :  0.0.0.25
GOLDEN Bt ver :  0.0.0.25
Baseline ver :  0.0.0.25 (Internal version for
checking)
```

The following example shows a partial completion of the downgrade procedure. If the image version displayed for "NORMAL bt ver" and "GOLDEN Bt ver" do not match, you must continue the downgrade procedure to correct the mismatch. In this example, the golden bootrom partition must be downgraded to match the image version on the normal bootrom partition.

```
PROCESSOR : Freescale MPC8541
SYSTEM MEMORY : 1G
VxWorks :  VxWorks5.5.1
BSP version :  1.2/0
Boot version :  0.0.0.29 (GOLDEN Boot)
Creation date :  Dec 12 2007, 19:26:37
By :  kevz
NORMAL Bt ver :  0.0.0.25
GOLDEN Bt ver :  0.0.0.29
```


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```
Baseline ver :  0.0.0.29 (Internal version for
checking)
```

--End--

Downgrading the Secure Router 4134 software to move an interface module from a Release 10.1.4 chassis to a Release 10.1.x chassis

Use this procedure to move an external interface module from a Secure Router 4134 that is running Release 10.1.4 software to a Secure Router 4134 that is running Release 10.1.x software.

You can move an interface module from a Secure Router 4134 that is running Release 10.1.x software to a Secure Router 4134 that is running Release 10.1.4 software—no special steps are required. Nortel strongly recommends that you power down the Secure Router 4134 if you are installing an interface module in a slot in which you have not previously installed that module type. If you do not power down the router to install a module, you must reboot the router to use the module.

Procedure steps

Step	Action
1	Reboot the Secure Router 4134 that runs the Release 10.1.4 software.
2	Access the bootrom command menu by pressing any key at the beginning of the boot sequence. The Secure Router 4134 stops the auto-boot sequence and redirects you to the bootrom prompt. The following figure shows you the prompt at which you can enter the bootrom command menu by pressing any key.

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```
                    VxWorks System Boot

Copyright (c) 1998-2004 Nortel (Tasman) Networks

PROCESSOR     : Freescale MPC8541
SYSTEM MEMORY : 1G
VxWorks       : VxWorks5.5.1
BSP version   : 1.2/0
Boot version  : 0.0.0.19 (NORMAL Boot)
Creation date : Jan  9 2007, 16:21:46
           By : siamak
NORMAL Bt ver : 0.0.0.19
GOLDEN Bt ver : 0.0.0.19
Baseline ver  : 0.0.0.1 (Internal version for checking)



Press any key to stop auto-boot...
 3

[BOOT]: _
```

3 To downgrade all modules installed in the Secure Router 4134, enter:

E

4 Power down the Secure Router 4134.

For instructions to safely power down the Secure Router 4134, see *Nortel Secure Router 4134 — Commissioning* (NN47263-302).

5 Remove the interface modules that you intend to install in a Release 10.1.x router.

6 Power up the Secure Router 4134 that is running Release 10.1.4 software.

Any interface modules installed in the Secure Router 4134 (Release 10.1.4 software) update to the Release 10.1.4 firmware automatically when the router boots.

For instructions to install interface modules in the Secure Router 4134, see *Nortel Secure Router 4134 Installation — Hardware Components* (NN47263-301).

--End--

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Upgrading or downgrading the bootrom image version

The Secure Router 4134 Release 10.1.x software includes a bootrom version that is updated from the 10.0.0 release.

> ***Note:*** If you are upgrading from release 10.1.0 to release 10.1.x, this procedure is not required.If the system is currently running release 10.1.4, then the user does need to downgrade the bootrom code when downloading the system code. After downgrade, the bootrom should be at 0.0.0.31.

If you configured the bootrom image update setting to AutoUpdate (0), the normal and golden bootrom partitions update automatically when you upgrade the Secure Router 4134 software.

If the normal or golden bootrom partition image version does not automatically update, use the procedure in this section to update the image. Note that the normal bootrom partition should be updated before the golden (if the normal bootrom image is incorrect).

If you must downgrade your Secure Router 4134 from Release 10.1.x to Release 10.0 software, you use the procedure in this section to downgrade the image version on the normal and golden bootrom partitions. If you are downgrading the Release software, ensure you read “Downgrading the Secure Router 4134 software” (page 15) before you follow the steps in this section.

You must upgrade or downgrade both the normal and golden bootroms to prevent a bootrom mismatch.

Use the **`show version`** command in the CLI to find information for the image version running on the normal and golden bootrom partitions of your Secure Router 4134.

ATTENTION
If you have the Mediation Server Module installed, there is a 2-minute delay after you issue the **`reboot`** command while the router waits for the module to shut down. The chassis reboots automatically when the Mediation Server Module completes shutdown.

Procedure steps

Step	Action
1	Download the new software image file (SR4134.Z) to your FTP server.
2	Access the bootrom command menu by booting the Secure Router 4134 and pressing any key at the beginning of the boot sequence.

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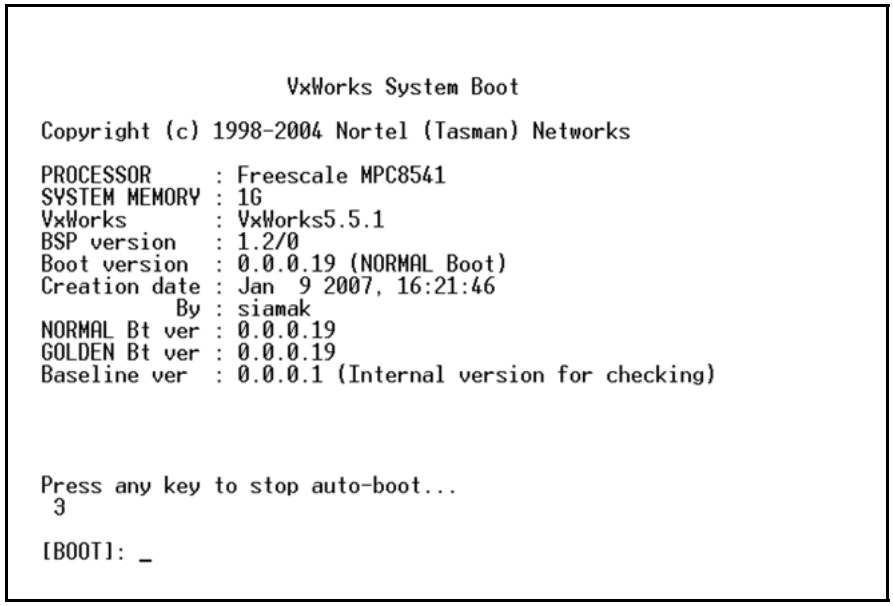
The Secure Router 4134 stops the auto-boot sequence and redirects you to the bootrom prompt.
The following figure shows you the prompt at which you can enter the bootrom command menu by pressing any key.



3 At the prompt, enter **c** to change the boot parameters:
`[BOOT]: c`

4 When prompted, enter the name of the device from which you prefer the router to boot:
`Boot dev [ftp,cf0,cf1,usb0]: cf0`

Pressing **Enter** after each entry or selection saves that information to the router. For example, if you select **cf0** as the boot device, you do not have to enter information for the FTP server because the Secure Router 4134 checks only the CF0 device for the image.

5 Enter the image filename (enter the full directory path if you selected **ftp** as the boot device):
`Boot file name: SR4134.Z`

6 Enter the name of the FTP server (only if you selected **ftp** as your boot device):
`Server name: sunserver`

7 Enter the FTP server IP address (only if you selected **ftp** as your boot device):
`Server IP address: 10.10.11.12`

8 Enter the router IP address (the router provides this information if previously configured)
`My IP address: 10.10.13.14`

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9 Enter the subnet mask (the router provides this information if previously configured):

```
My subnet mask: 255.255.255.0
```

10 Enter the gateway IP address (the router provides this information if previously configured):

```
Gateway IP address:  10.10.13.1
```

11 Enter your user name and password:

```
User name: kevz
Password: kevz
```

12 Enter 0 to disable or 1 to enable the checksum feature:

```
Checksum enable [0:Disable,1:Enable]:  1
```

13 Enter 0 to disable or 1 to enable the display of the image header contents:

```
Show header enable [0:Disable,1:Enable]:  1
```

14 Enter the number that corresponds to the bootrom partition that you want to upgrade or downgrade (enter **1** for the normal bootrom; enter **2** for the golden bootrom):

```
Save bootrom image [0:AutoUpdate,1:NormalBTupd,
2:GoldenBTupd,3:NoUpd]:1
```

15 To complete the update of the selected bootrom partition, enter **D** at the prompt to reboot the router:

```
[BOOT]: D
```

Allow the boot sequence to complete.

16 When the boot sequence is complete, the Secure Router 4134 returns a message verifying the boot image is updated and that the system must reboot.

The Secure Router 4134 reboots. Allow the boot sequence to complete.

17 To display the bootrom version numbers and the active boot partition, use the **show version** command in the CLI, or access the bootrom command menu and enter **v** at the prompt:

```
[BOOT]: v

PROCESSOR : Freescale MPC8541
SYSTEM MEMORY : 1G
VxWorks :  VxWorks5.5.1
BSP version :  1.2/0
Boot version :  0.0.0.29 (NORMAL Boot)
Creation date :  Dec 12 2007, 19:26:37
By :  kevz
NORMAL Bt ver :  0.0.0.29
GOLDEN Bt ver :  0.0.0.29
Baseline ver :  0.0.0.29 (Internal version for
checking)
```


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Ensure you upgrade or downgrade both the normal and golden bootroms to prevent a bootrom mismatch.

18 Repeat this procedure to update the golden bootrom partition, if necessary.

--End--

ATTENTION
After you successfully update the bootrom partitions, enter the **boot_params** command (`SR/configuration#` **boot_params**), or access the bootrom command menu (that is, interrupt the auto-boot sequence to access the boot parameters), to revert the bootrom image update feature to AutoUpdate (0).

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Resolved issues

This section lists the resolved issues in Release 10.1.4 software.

Resolved issues

The following table describes issues that existed in prior releases that are resolved in Release 10.1.4.

Table 2
Resolved issues in Release 10.1.4

Change Request	Subsystem	Description
Q02042482	show-running config	Unable to show running config or save local from telnet session after console session that was displaying a show-running config is killed off improperly.
Q02022175	show-running config	User is locked out from anything config related (save local, show running, config term).
Q01771017-01	SSH	SSH Server memory leaks.
Q02011084	SIP Gateway	T38 interoperability issue with CS1000.
Q02004826	ISDN	ISDN bundle map not stored correctly if it contains a Regular Expression.
Q02000414	BRI	Show run displays an error when both ISDN PRI and BRI bundles are configured on the router.
Q02010716	BGP	BGP mishandles options it does not understand and does not forward the option intact.
Q02014209	SSH	Unable to enter configuration mode because another session still had it after clear sessions.
Q02007228	L2	Lag interface missing Spanning-tree portfast command
Q02000976	VRRP	Secure Router during a reboot and becomes the VRRP Master but routing configuration is not completed causing traffic loss.
Q01920730	SNMP	When storing configuration file by a non-admin user will cause the SNMP community strings to be incorrect.

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Table 2
Resolved issues in Release 10.1.4 (cont'd.)

Change Request	Subsystem	Description
Q02026799	BRI	Secure Router when used for voice calls is setting the BRI channel B2 to exclusive instead of preferred.
Q02011276	SIP Gateway	Support for country specific ring-back tones for SIP clients.
Q02036086	SIP Gateway	Secure Router rejects the voice call when unsupported SRTP is offered along with unencrypted RTP.

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Known issues

This section lists the known issues in Release 10.1.4 software.

Known issues

The following table describes issues and limitations known to exist in the Secure Router 4134 Software Release 10.1.4.

Table 3
Known issues and limitations

Change Request	Subsystem	Description

Q01831324	CLI help	Better CLI context help requested similar to the SR1000 and SR3120.
		The SR4134 CLI context sensitive help differs from the SR1000/SR3120 products.
		With the SR4134, help text for mandatory parameters is displayed one at a time. To get help for the next mandatory parameter, enter "?" after the command.
		To get help for all optional parameters, enter "?" after the last mandatory parameter.
		
		For example, the following sample displays the SR4134 help for a command with two mandatory parameters and two optional parameters
		
		`SR4K/configure>` **`command ?`**
		`MandatoryParam1 Help for MandatoryParam1`
		
		`SR4K/configure>` **`command MandatoryParam1 ?`**
		`MandatoryParam2 Help for MandatoryParam2`
		
		`SR4K/configure>` **`command MandatoryParam1 MandatoryParam2 ?`**
		`OptionalParameter1 Help for OptionalParameter1`
		`OptionalParameter2 Help for OptionalParameter2`

Q01832669	CLI	No **`reload`** command.

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Table 3
Known issues and limitations (cont'd.)

Change Request	Subsystem	Description
Q01831322	Ethernet	Ethernet ports not enabled by default.
Q01905118	DHCP relay	When the IP address is removed from an interface serving as a DHCP relay agent, the associated DHCP relay configuration is not removed.
Q01783680	Ethernet CFM	No check on interface VLAN change even if associated with MA. The Secure Router 4134 performs a check or validation when adding a nonexistent VLAN to a Connectivity Fault Management (CFM) Maintenance Association (MA) for a particular Maintenance End Point (MEP) interface. However, if you create an interface with VLAN X and associate an MA with VLAN X, and then change the interface VLAN to Y, the Secure Router 4134 does not run a validation check or issue errors for the MA. Therefore, when a VLAN interface is changed on the Secure Router 4134 (for example, VLAN X is changed to VLAN Y), ensure you update the VLAN associations for MAs as well (`SR/configure/oam/cfm/md MD1/ma MA1#` **`vlan <vid>`**).
Q01812273	Ethernet CFM	CC or LTM multicast messages when Rxed through Marvell ports are dropped. Nortel does not support the transmission of Continuity Check Messages (CCM), Linktrace Messages (LTM), or Loopback Messages (LBM) on Ethernet interface module interfaces in Release 10.1. Nortel supports MIP configurations on chassis Gigabit Ethernet (GbE) ports only in Release 10.1.
Q01909667	ISDN interface	The status of the ISDN interface does not display if the interface is looped. If the physical T1/E1 interface is looped, the interface status is not displayed on the console and the link does not come up. The engineer must recheck the pin configuration.

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Table 3
Known issues and limitations (cont'd.)

Change Request	Subsystem	Description
Q01783728	LDP	The LDP FEC table does not remove an entry even though the Routing Table removed an entry. When interoperating LDP with Cisco routers, there are occasions when the LDP Label Release is sent by the Cisco router on a delay. This results in stale FEC entries being retained in the LDP Control Plane, visible through the LDP show commands. Workaround: 1. Wait for the delayed Label Release messages. 2. Issue the **`clear ldp adjacency`** command for this session to clean up all associated FEC learned from the Cisco router.
Q01728651-01	MPLS	No option to configure the Router ID on an interface IP address. You can use only loopback IP addresses as the Router ID. A feature enhancement that allows you to configure the Router ID using any interface IP address is planned for the next release of Secure Router 4134 software.
Q01793375	PSS	The multicast traffic is not forwarded to any interface, if one of the output interfaces has an MTU less than the packet size. In this scenario, the input interface is a module Ethernet interface with jumbo frames enabled, and there are two output interfaces (OIF): one with normal MTU size and one with jumbo frames enabled. If the normal MTU interface is removed from the OIF list, everything works as expected. If the normal interface is part of the OIF, then the other Ethernet module interface (with jumbo frames enabled) does not receive the packets.

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Table 3
Known issues and limitations (cont'd.)

Change Request	Subsystem	Description
Q01764294	QoS	With CBQ, low priority classes are not getting CR with high packet size traffic. The chances of this issue occurring are less than 1%. Meeting the defect reproduction criteria is very rare. However, the issue is that the least priority flows can fall short of their expected committed rate bandwidth. Workaround: Regroup/pack the traffic flows so that there are fewer priority groups. For example, create only four priority groups.
Q01812350	SSH	Encrypted private key cannot be restored after command {change "null" "" }. The encrypted private key cannot be restored after the command **`change "null" "" <value>`** is executed. That is, if the output passphrase is specified with a **`""`** (null string) instead of entering **`"null"`**, then the key cannot be restored.
Q01912458	SIP Media Gateway	With calls between a SIP phone and an ISDN PRI circuit, the SR4134 does not transmit a BYE when the Content Length specified in the ACK message from the SIP phone does not match the exact length of the SDP.

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Known limitations

This section provides information about known limitations for the Secure Router 4134.

Known limitations

The following table provides information about design limitations known to exist in the Secure Router 4134 Software Release 10.1.4.

Table 4
Design limitations for the Secure Router 4134

Subsystem	Description
Voice	When SR sip-ua is configured to use TCP transport, the call is disconnected when it is redirected from one analog phone to another by a SIP phone. The work-around is to use UDP.
	When multiple codecs are configured on SR, call retrieve fails when invoked from FXS phone to SCS server. The work-around is to configure a single codec on SR.
	The call is not forwarded to voice mail when an analog phone calls another analog phone and the call is not answered.

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How to get help

How to get help

This section explains how to get help for Nortel products and services.

You can download the Secure Router 4134 10.1.4 software from the Customer Service Portal site, at www.nortel.com/support.

Getting help from the Nortel Web site

The best way to get technical support for Nortel products is from the Nortel Technical Support Web site:

www.nortel.com/support

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. From this site, you can

- download software, documentation, and product bulletins
- search the Technical Support Web site and the Nortel Knowledge Base for answers to technical issues
- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

Getting help over the phone from a Nortel Solutions Center

If you do not find the information you require on the Nortel Technical Support Web site, and you have a Nortel support contract, you can also get help over the phone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the following Web site to obtain the phone number for your region:

www.nortel.com/callus

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Getting help from a specialist using an Express Routing Code

To access some Nortel Technical Solutions Centers, you can use an Express Routing Code (ERC) to quickly route your call to a specialist in your Nortel product or service. To locate the ERC for your product or service, go to:

www.nortel.com/erc

Getting help through a Nortel distributor or reseller

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller.

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Secure Router 4134

Secure Router 4134 Release Notes

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